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REISSUE PATENT APPLICATION TRANSMITTAL								
			Attorney Docket No		AMAT/260	01 R 02/CMP/ECP/RKK		
Address to:			First Named Inventor			Uziel Landau		
Mail Stop Reissue			Original Patent Number		6,261,433			
P.O. Box 1	oner for Patents 1450		Original Patent Issue Date (Month/Day/Year)		07/17/2	001		
Alexandria	a, VA 22313-1450		Express Mail Label No.			33581US		
	FOR REISSUE OF: ock applicable box) Utility F	Design Patent Patent						
APPLICATION E	LEMENTS (37 CFR 1.173)		ACCOMPANYING APPLICATION PARTS					
1. Submit a	nsmittal Form (PTO/SB/56) an original, and a duplicate for fee processin	-		10. changes	s to the claims	ind support for all s. See 37 CFR 1.173(c).		
	t claims small entity status. See 37 CFR 1.2			11. Original	Patent Grant	v.		
	ition and Claims in double column copy of parts, if appropriate)	atent format	t	∠ Ri	ibboned Orig	inal Patent Grant		
4. Drawing(s) (proposed amendments, if appropriate)			L s	tatement of L	oss (PTO/SB/55)		
				12. Foreign Priority Claim (35 U.S.C. 119) (if applicable)				
6. Power of	Attorney			13. Informati	on Disclosure nt (IDS)/PTO	Copies of IDS Citations		
.7. Original U.S. Patent currently assigned? Yes No (If Yes, check applicable box(es))				English Translation of Reissue Oath/Declaration (if applicable)				
Written Consent of all Assignees (PTO/SB/53)				15. Preliminary Amendment				
37 C.F.R. 3.73(b) Statement (PTO/SB/96)				Return Receipt Postcard (MPEP 503) 16. (Should be specifically itemized)				
8. CD-ROM or CD-R in duplicate, Computer Program (Appendix) or large table 17. Other:								
Nucleotide and/or Amino Acid Sequence Submission (if applicable, all of the following are necessary)								
a. Computer Readable Form (CFR)								
b. Specification Sequence Listing on: i								
c. Statements verifying identity of above copies								
18. CORRESPONDENCE ADDRESS								
Customer	Number.			OR 🗸	Corresponde	ence address below		
Name Applied Materials, Inc.								
Address Patent Counsel								
PO Box 450A City Santa Clara				CA	Zip Code	95052		
Country USA Telephone			(713) 623-4844					
Name (Print/Type)				istration No. (Attor	nev/Agent)			
Name (Print/Type) B. Todd Patterson Signature B. John Patture			Registration No. (Attorney/Agent) 37,906 Date 7/17/03					

This collection of information is required by 37 CFR 1.173. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop Reissue, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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DEICCHE ADDITION EEF TRANSMITTAL FORM						Docket Number (Optional)								
REISSUE APPLICATION FEE TRANSMITTAL FORM							AMAT/2601 R 02/CMP/ECP/RKK							
Claims as Filed – Part 1														
Claims in				ber Filed in Reissue		(3) Number Extra	•	Rate	Small	Entity Fee		C	Other than a Sm Rate	nall Entity Fee
Patent				oplication		Number Extra Rate Fee				Nate	ree			
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*** After any	/ cance	ellation of claim	S.											
**** If "A" is greater than 20, use (B – A); if "A" is 20 or less, use (B – 20).														
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☐ Applica	nt clain	ms small entity	status. S	See 37 CFR	1.27.									
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The Director is hereby authorized to charge any additional fees under 37 CFR 1.16 or 1.17 which may be required, or credit any overpayment to Deposit Account No. 20-0782/2601 R 02/CMP/ECP/RKK A duplicate copy of this sheet is enclosed.														
A check in the amount of \$ to cover the filing/additional fee is enclosed.														
Payment by credit card. Form PTO-2038 is attached.														
WARNING: Information on this form may become public. Credit card information should not														
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7/17/03 /3. Jodd Latterso														
Date Signature of Applicant, Attorney or Agent of Record														
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Registration Number, if applicable Typed or printed name														

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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CERTIFICATE UNDER 37 CFR 1.10

I hereby certify that the following documents:

- 1) Reissue Patent Application Transmittal;
- 2) Reissue Application Fee Transmittal Form;
- 3) Copy of US Patent No. 6,261,433 in two column format;
- 4) Ribboned Original Patent Grant for US Patent No. 6,261,433;
- 5) Certificate of Correction for US Patent No. 6,261,433;
- 6) Consent of Assignee;
- 7) Statement Under 37 CFR 3.73(b);
- 8) 7 Sheets of Formal Drawings;
- 9) Preliminary Amendment;
- 10) Statement Under 37 CFR 1.173(c);
- 11) Information Disclosure Statement with US PTO Form 1449 and 33 references; and
- 12) Unsigned Reissue Application Declaration by the Inventor

are being deposited on <u>July 17, 2003</u> with the United States Postal Service in a package as "Express Mail Post Office to Addressee," mailing label No. <u>EV331233581US</u> addressed to: MAIL STOP REISSUE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

07/17/63	Molh	
Date	Signature	

U.S. PATENT DOCUMENTS

3,770,598	11/1973	Creutz 204/52 R
4,027,686	6/1977	Shortes et al 134/33
4,092,176	5/1978	Kozai et al 134/186
4,110,176	8/1978	Creutz, et al 204/52 R
4,113,492	9/1978	Sato et al 96/67
4,315,059	2/1982	Raistrick et al 429/112
4,326,940	4/1982	Eckles et al 204/232
4,336,114	6/1982	Mayer et al 204/52 R
4,376,685	3/1983	Watson 204/52 R
4,405,416	9/1983	Raistrick et al 204/68
4,428,815	1/1984	Powell et al 204/297 W
4,435,266	3/1984	Johnston 204/276
4,489,740	12/1984	Rattan et al 134/140
4,510,176	4/1985	Cuthbert et al 427/82
4,518,678	5/1985	Allen 430/311
4,519,846	5/1985	Aigo 134/15
4,693,805	9/1987	Quazi 204/192.22
4,732,785	3/1988	Brewer 427/240
4,789,445	12/1988	Goffman et al 204/114
5,039,381	8/1991	Mullarkey 204/47.5
5,055,425	10/1991	Leibovitz et al 437/195
5,092,975	3/1992	Yamamura et al 204/198
5,155,336	10/1992	Gronet et al 219/411
5,162,260	11/1992	Leibovitz et al 437/195
5,222,310	6/1993	Thompson et al 34/202
5,224,504	7/1993	Thompson et al 134/155
5,230,743	7/1993	Thompson et al 134/32
5,252,807	10/1993	Chizinsky 219/390
5,256,274	10/1993	Poris 205/123
5,259,407	11/1993	Tuchida et al 134/151
5,290,361	3/1994	Hayashida et al 134/2
5,316,974	5/1994	Crank 437/190
5,328,589	7/1994	Martin 205/296
5,349,978	9/1994	Sago et al 134/153

5,368,711		11/1994	Poris	204/193
5,377,708		1/1995	Bergman et al	134/105
5,429,733	*	7/1995	Ishida	204/224 R
5,447,615	*	9/1995	Ishida	204/224 R
5,516,412		5/1996	Andricacos et al	204/224 R
5,608,943		3/1997	Konishi et al	15/302
5,625,170		4/1997	Poris	177/50
5,651,865		7/1997	Sellers	204/192.13
5,705,223		1/1998	Bunkofske	427/240
5,718,813		2/1998	Drummond et al	204/192.12
5,723,028		3/1998	Poris	204/231

OTHER PUBLICATIONS

PCT International Search Report dated Feb. 7, 2000. Kenneth E. Pitney, "NEY Contact Manual," Electrical Contact for Law Formula 1972

Lucio Colombo, "Wafer Back Surface Film Removal," Central R&D, SGS-Thompson, Microelectronics, Agrate, Italy, 6 pages, no month/year available.

Semitool®, Inc., "Metallization & Interconnect," 1998, 4 pages, no month available.

Verteq Online©, "Products Overview," 1996–1998, 5 pages, no month available.

Laurell Technologies Corporation, "Two control configurations available-see WS 400 OR WS-400Lite." Oct. 19, 1998, 6 pages.

Peter Singer, "Tantalum, Copper and Damascene: The Future of Interconnects," Semiconductor International, Jun. 1998, Pages cover, 91-92,94,96 & 98.

Peter Singer, "Wafer Processing," Semiconductor International, Jun., 1998, p. 70.

^{*} cited by examiner

UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

PATENT NO.

:: 6,261,433 B1

DATED

: July 17, 2001

INVENTOR(S) : Landau

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5,

Line 38, please replace "electric" with -- dielectric --.

Column 9,

Line 24, please replace "comers" with -- corners --.

Column 15,

Line 64, please replace "predetermined" with -- pre-determined --.

Column 17,

Line 40, please replace "e.g." with -- e.g., --.

Column 18,

Line 26, please delete "Li".

Signed and Sealed this

Page 1 of 1

Twenty-eighth Day of May, 2002



JAMES E. ROGAN Director of the United States Patent and Trademark Office

Attesting Officer